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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/894,115	06/27/2001	Geoffrey Huang	CISCP204	7433		
22434	7590 10/21/2004		EXAMINER			
BEYER WI P.O. BOX 77	EAVER & THOMAS I	CERVETTI, DA	CERVETTI, DAVID GARCIA			
	, CA 94704-0778		ART UNIT	PAPER NUMBER		
·- ,			2136			

DATE MAILED: 10/21/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			Applicatio	n No.	Applicant(s)		
Office Action Summary		09/894,11	5	HUANG ET AL.			
		Examiner		Art Unit			
			David G. C		2136		
The Period for Rep	MAILING DATE of this communic ly	cation app	ears on the	cover sheet with th	he correspondence a	ddress	
THE MAILIN - Extensions of after SIX (6) N - If the period for the	NED STATUTORY PERIOD FOO NG DATE OF THIS COMMUNIC time may be available under the provisions of MONTHS from the mailing date of this commu- or reply specified above is less than thirty (30) or reply is specified above, the maximum state by within the set or extended period for reply we sived by the Office later than three months afterm adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.13 inication. of days, a reply utory period wideling by statute,	6(a). In no eve within the statu ill apply and will cause the appli	nt, however, may a reply tory minimum of thirty (30) expire SIX (6) MONTHS cation to become ABAND	oe timely filed) days will be considered time from the mailing date of this one considered (35 U.S.C. § 133).		
Status							
2a) ☐ This a 3) ☐ Since	onsive to communication(s) filed action is FINAL . 2 this application is in condition for the distribution of the distributio	b)⊠ This or allowan	action is no	for formal matters,	•	e merits is	
Disposition of	Claims						
4a) Of 5) ☐ Claim 6) ☑ Claim 7) ☑ Claim	(s) <u>1-45</u> is/are pending in the aptithe above claim(s) is/are (s) is/are allowed. (s) <u>1-45</u> is/are rejected. (s) <u>34 and 40</u> is/are objected to (s) are subject to restrict	e withdraw					
Application Pa	pers						
10)⊠ The dr Applic Replac	pecification is objected to by the rawing(s) filed on 27 June 2001 ant may not request that any objectement drawing sheet(s) including ath or declaration is objected to	is/are: a) tion to the c the correction	☐ accepte drawing(s) be on is require	e held in abeyance. ed if the drawing(s) is	See 37 CFR 1.85(a). s objected to. See 37 C	CFR 1.121(d).	
Priority under	35 U.S.C. § 119		. ,	•	٠.		
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice of Dra 3) Information D	ferences Cited (PTO-892) aftsperson's Patent Drawing Review (PT Disclosure Statement(s) (PTO-1449 or F Mail Date	•	•		nary (PTO-413) ail Date nal Patent Application (PT	⁻ O-152)	

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DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference characters not mentioned in the description: Figure 3, Number 308, and Figure 4, Numbers 55, 57, and 59. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference characters in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Specification

The abstract of the disclosure is objected to because it exceeds 150 words in length. Correction is required. See MPEP § 608.01(b).

The attempt to incorporate subject matter into this application by reference to "Internet Security Association and key management protocol (ISAKMP)" RFC 2408, "The Internet Key Exchange" RFC 2409, and "Security Architecture for the Internet Protocol" RFC 2401 is improper because they are considered essential material. An

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application for a patent when filed may incorporate "essential material" by reference to (1) a U.S. patent, (2) a U.S. patent application publication, or (3) a pending U.S. application, subject to the conditions set forth below. Essential material" is defined as that which is necessary to (1) describe the claimed invention, (2) provide an enabling disclosure of the claimed invention, or (3) describe the best mode.

The disclosure is objected to because of the following informalities: "which" (Page 5, line 3), perhaps "wish" was intended, "HTTP, TCP, FTP" (page 8, line 12), "ATM, IP, ISDN" (page 10, lines 15-16), "MIPS" (page 11, line 4), "RAM", "ROM" (page 11, line 7), "DSL" (page 11, line 15), "ATM", "HSSI", "POS", "FDDI" (page 11, lines 17-18), "CD-ROM' (page 12, line 13) while well know in the art, these terms have not been defined.

The use of the trademark "Windows NT" (page 11, line 2) has been noted in this application. It should be capitalized wherever it appears and be accompanied by the generic terminology. Although the use of trademarks is permissible in patent applications, the proprietary nature of the marks should be respected and every effort made to prevent their use in any manner which might adversely affect their validity as trademarks. Appropriate correction is required.

Claim Objections

Claims 34 and 40 are objected to because of the following informalities: the acronym CPU may render the claim indefinite. Please spell out the acronym.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 6, 7, 12, 13, 14, 19, 24, 25, 26, 31, 32, 33, 34, 39, 40, and 45 are rejected under 35 U.S.C. 102(b) as being anticipated by Mann, et al.

Regarding claims 1 and 14, Mann, et al. teach a method for generating a control message to be transmitted from a first network device to a second network device in a data network, the control message relating to an action to be performed at the second network device, the method comprising:

- determining a first control message to be generated (column 1, lines 40-42);
- identifying reason information relating to at least one reason for generating the first control message (column 1, lines 44-49 and 62-68); and
- generating the first control message, the first control message including said reason information (column 1, lines 40-42).

Furthermore, with respect to claim 14, Mann, et al. teach a computer program product for generating a control message (column 5, lines 16-29).

With respect to claim 6, Mann, et al. teach the method of claim 1 further comprising transmitting the first control message to the second network device (column 3, lines 36-43) to thereby cause the second network device to implement an appropriate action in response to the first control message (column 2, lines 61-68).

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With respect to claims 7 and 19, Mann, et al. teach a method for communicating between nodes in a data network, the method comprising:

- receiving a first control message from a first node, the control message including reason information relating to at least one reason for the generation of the first control message (column 1, lines 40-53 and 54-56);
- identifying the reason information (column 1, lines 56-58);
- determining an appropriate response to the first control message using at least said reason information (column 1, lines 58-62); and
- implementing said appropriate response (column 1, lines 62-68).

Furthermore, with respect to claim 19, Mann, et al. teach a computer program product for communicating between nodes in a data network (column 5, lines 16-29).

With respect to claim 12, Mann, et al. teach the method of claim 7 further comprising:

- implementing a first response to the first control message if the reason information includes a first reason code (column 2, lines 61-68); and
- implementing a second response to the control message if the reason information includes a second reason code (column 13, lines 1-17 and 53-61, column 15, lines 8-22, figure 6B, number 103, figures 6E and 6F).

With respect to claim 13, Mann, et al. teach the method of claim 7 wherein the control message relates to an action to be performed at a network device receiving the control message (column 2, lines 61-68).

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With respect to claim 24, Mann, et al. teach the computer program product of claim 19 further comprising:

- computer code for implementing a first response to the first control message if the reason information includes a first reason code (column 2, lines 61-68); and
- computer code for implementing a second response to the control message if the reason information includes a second reason code (column 13, lines 1-17 and 53-61, figure 6B, number 103).

With respect to claim 25, Mann, et al. teach the computer program product of claim 19 wherein the control message relates to an action to be performed at a network device receiving the control message (column 2, lines 61-68).

With respect to claim 26, Mann, et al. teach a system for communicating between nodes in a data network, the system comprising:

- means for receiving a first control message from a first node, the control
 message including reason information relating to at least one reason for the
 generation of the first control message (column 1, lines 40-53 and 54-56);
- means for identifying the reason information (column 1, lines 56-58);
- means for determining an appropriate response to the first control message using at least said reason information (column 1, lines 58-62); and
- means for implementing said appropriate response (column 1, lines 62-68).

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With respect to claim 31, Mann, et al. teach the system of claim 26 further comprising means for transmitting the first control message to the second network device (column 3, lines 36-43) to thereby cause the second network device to implement an appropriate action in response to the first control message (column 2, lines 61-68).

With respect to claim 32, Mann, et al. teach the system of claim 26 further comprising:

- means for implementing a first response to the first control message if the reason information includes a first reason code (column 2, lines 61-68); and
- means for implementing a second response to the control message if the reason information includes a second reason code (column 13, lines 1-17 and 53-61, figure 6B, number 103).

With respect to claim 33, Mann, et al. teach the system of claim 26 wherein the control message relates to an action to be performed at a network device receiving the control message (column 2, lines 61-68).

With respect to claim 34, Mann, et al. teach a system for generating a control message to be transmitted to a network device in a data network, the control message relating to an action to be performed at the network device, the system comprising:

- at least one CPU (column 2, lines 34-38);

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- memory (column 2, lines 34-38); and

- at least one interface for communicating with the network device (figure 2, number 19);

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- the system being configured or designed to determine a first control message to be generated (column 1, lines 40-42);
- the system being further configured or designed to identify reason information relating to at least one reason for generating the first control message (column 1, lines 44-49 and 62-68); and
- the system being further configured or designed to generate the first control message, wherein the first control message includes said reason information (column 1, lines 40-42).

With respect to claim 39, Mann, et al. teach the system of claim 34 being further configured or designed to transmit the first control message to a second network device (column 5, lines 30-37) to thereby cause the second network device to implement an appropriate action in response to the first control message (column 5, lines 37-52).

With respect to claim 40, Mann, et al. teach a system for communicating between nodes in a data network, the system comprising:

- at least one CPU (column 2, lines 34-38);
- memory (column 2, lines 34-38); and
- at least one interface for communicating with at least one network device (figure 2, number 19);

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- the system being configured or designed to receive a first control message from a first node, the control message including reason information relating to at least one reason for the generation of the first control message (column 1, lines 54-56);
- the system being further configured or designed to identify the reason information (column 1, lines 56-58);
- the system being further configured or designed to determine an appropriate response to the first control message using at least said reason information (column 1, lines 58-62); and
- the system being further configured or designed to implement said appropriate response (column 1, lines 62-68).

With respect to claim 45, Mann, et al. teach the system of claim 40 further comprising:

- the system being further configured or designed to implement a first response to the first control message if the reason information includes a first reason code (column 2, lines 61-68); and
- the system being further configured or designed to implement a second response to the control message if the reason information includes a second reason code (column 13, lines 1-17 and 53-61, figure 6B, number 103).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 2, 3, and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann, et al. as applied to claim 1 above, and further in view of Troxel, et al.

Mann, et al. teach the limitations as set forth under claim 1 above. However, Mann, et al. do not disclose expressly that the Internet Key Exchange Protocol (IKE), the Security Architecture for the Internet Protocol (IP Security), or the Internet Security Association and Key Management Protocol (ISAKMP) may be used.

Troxel, et al. teach sending messages between nodes in a network using IPSec protocols (RFC 2401), Internet Key Exchange Protocol (RFC 2409), and Internet Security Association and Key Management Protocol (RFC 2408) (page 5, column 2, paragraph 0070).

Mann, et al. and Troxel, et al. are analogous art because they are from the same field of endeavor, sending messages between nodes in a communications network.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use these three protocols to send messages between nodes in a communications network.

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Therefore, it would have been obvious to combine Mann, et al. and Troxel, et al. for the benefit of sending messages between nodes in a communications network to obtain the invention as specified in claims 2, 3, and 4.

Claims 8, 9, and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann, et al. as applied to claim 7 above, and further in view of Troxel, et al.

Mann, et al. teach the limitations as set forth under claim 7 above. However, Mann, et al. do not disclose expressly that the Internet Key Exchange Protocol (IKE), the Security Architecture for the Internet Protocol (IP Security), or the Internet Security Association and Key Management Protocol (ISAKMP) may be used.

Troxel, et al. teach sending messages between nodes in a network using IPSec protocols (RFC 2401), Internet Key Exchange Protocol (RFC 2409), and Internet Security Association and Key Management Protocol (RFC 2408) (page 5, column 2, paragraph 0070).

Mann, et al. and Troxel, et al. are analogous art because they are from the same field of endeavor, sending messages between nodes in a communications network.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use these three protocols to send messages between nodes in a communications network.

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Therefore, it would have been obvious to combine Mann, et al. and Troxel, et al. for the benefit of sending messages between nodes in a communications network to obtain the invention as specified in claims 8, 9, and 10.

Claims 15, 16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann, et al. as applied to claim 14 above, and further in view of Troxel, et al.

Mann, et al. teach the limitations as set forth under claim 14 above. However, Mann, et al. do not disclose expressly that the Internet Key Exchange Protocol (IKE), the Security Architecture for the Internet Protocol (IP Security), or the Internet Security Association and Key Management Protocol (ISAKMP) may be used.

Troxel, et al. teach sending messages between nodes in a network using IPSec protocols (RFC 2401), Internet Key Exchange Protocol (RFC 2409), and Internet Security Association and Key Management Protocol (RFC 2408) (page 5, column 2, paragraph 0070).

Mann, et al. and Troxel, et al. are analogous art because they are from the same field of endeavor, sending messages between nodes in a communications network.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use these three protocols to send messages between nodes in a communications network.

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Therefore, it would have been obvious to combine Mann, et al. and Troxel, et al. for the benefit of sending messages between nodes in a communications network to obtain the invention as specified in claims 15, 16, and 17.

Claims 20, 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann, et al. as applied to claim 19 above, and further in view of Troxel, et al.

Mann, et al. teach the limitations as set forth under claim 19 above. However, Mann, et al. do not disclose expressly that the Internet Key Exchange Protocol (IKE), the Security Architecture for the Internet Protocol (IP Security), or the Internet Security Association and Key Management Protocol (ISAKMP) may be used.

Troxel, et al. teach sending messages between nodes in a network using IPSec protocols (RFC 2401), Internet Key Exchange Protocol (RFC 2409), and Internet Security Association and Key Management Protocol (RFC 2408) (page 5, column 2, paragraph 0070).

Mann, et al. and Troxel, et al. are analogous art because they are from the same field of endeavor, sending messages between nodes in a communications network.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use these three protocols to send messages between nodes in a communications network.

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Therefore, it would have been obvious to combine Mann, et al. and Troxel, et al. for the benefit of sending messages between nodes in a communications network to obtain the invention as specified in claims 21, 21, and 22.

Claims 27, 28, and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann, et al. as applied to claim 26 above, and further in view of Troxel, et al.

Mann, et al. teach the limitations as set forth under claim 26 above. However, Mann, et al. do not disclose expressly that the Internet Key Exchange Protocol (IKE), the Security Architecture for the Internet Protocol (IP Security), or the Internet Security Association and Key Management Protocol (ISAKMP) may be used.

Troxel, et al. teach sending messages between nodes in a network using IPSec protocols (RFC 2401), Internet Key Exchange Protocol (RFC 2409), and Internet Security Association and Key Management Protocol (RFC 2408) (page 5, column 2, paragraph 0070).

Mann, et al. and Troxel, et al. are analogous art because they are from the same field of endeavor, sending messages between nodes in a communications network.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use these three protocols to send messages between nodes in a communications network.

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Therefore, it would have been obvious to combine Mann, et al. and Troxel, et al. for the benefit of sending messages between nodes in a communications network to obtain the invention as specified in claims 27, 28, and 29.

Claims 35, 36, and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann, et al. as applied to claim 34 above, and further in view of Troxel, et al.

Mann, et al. teach the limitations as set forth under claim 34 above. However, Mann, et al. do not disclose expressly that the Internet Key Exchange Protocol (IKE), the Security Architecture for the Internet Protocol (IP Security), or the Internet Security Association and Key Management Protocol (ISAKMP) may be used.

Troxel, et al. teach sending messages between nodes in a network using IPSec protocols (RFC 2401), Internet Key Exchange Protocol (RFC 2409), and Internet Security Association and Key Management Protocol (RFC 2408) (page 5, column 2, paragraph 0070).

Mann, et al. and Troxel, et al. are analogous art because they are from the same field of endeavor, sending messages between nodes in a communications network.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use these three protocols to send messages between nodes in a communications network.

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Therefore, it would have been obvious to combine Mann, et al. and Troxel, et al. for the benefit of sending messages between nodes in a communications network to obtain the invention as specified in claims 35, 36, and 37.

Claims 41, 42, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann, et al. as applied to claim 40 above, and further in view of Troxel, et al.

Mann, et al. teach the limitations as set forth under claim 40 above. However, Mann, et al. does not disclose expressly that the Internet Key Exchange Protocol (IKE), the Security Architecture for the Internet Protocol (IP Security), or the Internet Security Association and Key Management Protocol (ISAKMP) may be used.

Troxel, et al. teach sending messages between nodes in a network using IPSec protocols (RFC 2401), Internet Key Exchange Protocol (RFC 2409), and Internet Security Association and Key Management Protocol (RFC 2408) (page 5, column 2, paragraph 0070).

Mann, et al. and Troxel, et al. are analogous art because they are from the same field of endeavor, sending messages between nodes in a communications network.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to use these three protocols to send messages between nodes in a communications network.

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Therefore, it would have been obvious to combine Mann, et al. and Troxel, et al. for the benefit of sending messages between nodes in a communications network to obtain the invention as specified in claims 41, 42, and 43.

Claims 5, 11, 18, 23, 30, 38, and 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann, et al. as applied to claims 1, 7, 14, 19, 26, 34, and 40 above respectively, and further in view of Leung.

Mann, et al. teach the limitations as set forth under claims 1, 7, 14, 19, 26, 34, and 40 above. However, Mann, et al. do not disclose expressly that the message may be used to modify a security association.

Leung teaches using packets (messages) for configuration, modification, and retrieval of security associations (column 5, lines 5-15 and 30-35).

Mann, et al. and Leung are analogous art because they are from the same field of endeavor, sending messages between nodes in a communications network.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to send messages between nodes in a communications network to modify a security association.

The suggestion/motivation for doing so would have been to reduce the administrative support required to configure and modify the security associations.

Therefore, it would have been obvious to combine Mann, et al. and Leung for the benefit of modifying security associations in a communications network to obtain the invention as specified in claim 5, 11, 18, 23, 30, 38, and 44.

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Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patent Number 6418205, filed May 7, 1998, inventors: Capers et al. Title: Call and circuit state machine for a transaction control layer of a communications signaling gateway.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David G. Cervetti whose telephone number is n/a. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on (703) 305-9648. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DGC

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